

Notice of Allowability	Application No.	Applicant(s)	
	10/048,231	FURUSHO, SHINJI	
	Examiner	Art Unit	
	Jacques Veillard	2165	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's amendment filed on 1/7/2005.
2. ☒ The allowed claim(s) is/are 1-3,5-25 and 27-29.
3. ☒ The drawings filed on 28 January 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>20050331</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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DETAILED ACTION

1. This action is responsive to the Applicant's communication filed on 1/7/2005.
2. Claims 1-8, 11, 13, 16, 17, and 20-29 have been amended.
3. Claims 1-29 are pending and are presented for examination.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Wesley Ashton (Reg. No. 47.395) the undersigned for applicant on March 31, 2005.

The application has been amended as follows:

In the claims:

4. (Canceled)
26. (Canceled)

Allowable Subject Matter

5. Claims 1-3, 5-25, and 27-29 are allowed over the prior art of record.
6. The following is an examiner's statement of reasons for allowance: Applicant particularly discloses a method and computer readable medium for inserting, deleting and updating table-

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format data by identifying an insertion position that indicates the position of the field value to be inserted, in said subscript conversion array, regarding said insertion position, giving an offset value that defines the range of the corresponding subscript and also identifies a stipulated position after the end of said array, in the subscript conversion array, regarding those records having a storage position number greater than the storage position number corresponding to the insertion position, giving an offset value that shifts the corresponding range of subscripts upward and also decrements the accepted subscript, and placing said field value to be inserted at the stipulated position after the end of said array, such that an offset value according to the range of subscripts within the subscript conversion array is given as the subscript and the field value with the array is identified by means of the subscript given by the offset value as embodied in the independent claims 1, 2, 3, 17, 23-25 in context with the limitations of the claims was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

The dependent claims, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

7. Regarding the independent claims 5,8, 11, 13, 16, 20, 22, and 27-29, the prior art taken singularly or in combination fail to teach or suggest a method or a computer readable medium wherein the data structure for table format comprises the table-format data constituted in a manner such that the table-format data is divided into one or more information blocks consisting of a value list containing a first actual array in which the field values are stored in the order of a

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field value number corresponding to the field value belonging to a specified field, and a pointer array containing a second actual array in which pointer values for pointing to said field value numbers are stored in a unique record number order, a second subscript conversion array constituted such that an input. output of the pointer array is given as the subscript in the value list. and a third offset corresponding to the range of the subscript is given is formed and field value within the first actual array is identified by means of the output of the pointer array given by an offset via said second subscription conversion array.

The dependent claims, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

The closest prior art Pasquariello (U. S. Pat. No. 5,687,377) discloses a system for storing array in a programming language that allows arrays to be re-dimensioned at any time, allowing strings to be used as subscripts. However, Pasquariello taken alone or in combination fails to anticipate or render applicant's limitations above obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Contact Information


8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacques Veillard whose telephone number is (571) 272-4086. The examiner can normally be reached on Mon. to Fri. from 9 AM to 4:30 PM, alt. Fri. off..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (571) 272- 4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


CHARLES RONES
PRIMARY EXAMINER


Jacques Veillard
Patent Examiner TC 2100

March 31, 2005